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NOTICE OF ALLOWANCE AND FEE(S) DUE

27557

7590

10/29/2009

BLANK ROME LLP WATERGATE 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037 EXAMINER

BEAULIEU, YONEL

ART UNIT PAPER NUMBER

3661

DATE MAILED: 10/29/2009

| APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------------------|------------|----------------------|---------------------|------------------|--|
| 10/562,442 | 06/19/2006 | Philip Kithil | 115584.00368 | 3577 | |

TITLE OF INVENTION: CRASH SENSING VIA PIEZOELECTRIC SENSORS

| I | APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| | nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/29/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| BLANK ROM WATERGATE 600 NEW HAM | , N.W. | | | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | | | |
| WASHINGTON | N, DC 20037 | | | | | | | (Depositor | r's name) |
| | | | | | | | | (Si | ignature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION 1 | NO. |
| 10/562,442 TITLE OF INVENTION | 06/19/2006 J: CRASH SENSING VI | A PIEZOELECTRIC SEI | Philip Kithil NSORS | | | | 115584.00368 | 3577 | |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE D | UE | PREV. PAID ISSUI | E FEE | TOTAL FEE(S) DUE | DATE DUE | 3 |
| nonprovisional | NO | \$1510 | \$300 | | \$0 | | \$1810 | 01/29/2010 | o |
| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | 3 | | | | | |
| BEAULIE | U, YONEL | 3661 | 701-045000 | | | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un | ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp | " Indication form | data will appear on t | rnativesingle or a strong libe or type he page an a | rely, e firm (having as a gent) and the namneys or agents. If printed. e) ttent. If an assignassignment. | membes of uno name | er a 2p to see is 3 | cument has been fi | iled for |
| | | categories (will not be pr | <u> </u> | | | | | | rnment |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | | |
| 5. Change in Entity Sta | itus (from status indicated in SMALL ENTITY state | | □ b Applicant is no | lone | ser claiming SMAI | LEN | ΓΙΤΥ status. See 37 CF | $\mathbb{R} + 27(\alpha)(2)$ | |
| * * | | uired) will not be accepte tes Patent and Trademark | * * | | | | | | party in |
| interest as shown by the | records of the United Sta | ites Patent and Trademark | COffice. | | | | | | |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | Registration No. | | | | | | |
| an application Confiden | tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC | CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | 1.14 This collection i | e oct | imated to take 12 r | minuted | to complete including | x gathering prepari | ing and |

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| 27557 | 7590 10/29/2009 | | EXAMINER | | | |
| BLANK ROME | LLP | | BEAULIEU, YONEL | | | |
| WATERGATE | | _ | ART UNIT | PAPER NUMBER | | |
| 600 NEW HAMP WASHINGTON, | SHIRE AVENUE, N.W DC 20037 | /. | 3661 DATE MAILED: 10/29/200 | 9 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 574 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 574 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | | | | | |
|--|--|---|-----------------|--|--|--|--|
| | 10/562,442 | KITHIL, PHILIP | | | | | |
| Notice of Allowability | Examiner | Art Unit | | | | | |
| | /Yonel Beaulieu/ | 3661 | | | | | |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendments filed 6/2 | (OR REMAINS) CLOSED or other appropriate comm GHTS. This application is and MPEP 1308. | in this application. If not included nunication will be mailed in due cour | se. THIS | | | | |
| 2. ⊠ The allowed claim(s) is/are <u>1-15</u> . | | | | | | | |
| Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | been received. been received in Applicati | on No | rom the | | | | |
| * Certified copies not received: | | | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm | IENT of this application. itted. Note the attached EX | AMINER'S AMENDMENT or NOTIO | | | | | |
| INFORMAL PATENT APPLICATION (PTO-152) which give | es reason(s) why the oath o | or declaration is deficient. | | | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | et be submitted. | | | | | | |
| (a) including changes required by the Notice of Draftspers | • | w (PTO-948) attached | | | | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | | | | |
| Paper No./Mail Date | | | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | () OT | | | | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | the | | | | |
| | | | | | | | |
| Attachment(s) | 5 | | | | | | |
| 1. Notice of References Cited (PTO-892) | \equiv | nformal Patent Application | | | | | |
| Notice of Draftperson's Patent Drawing Review (PTO-948) MInformation Disclosure Statements (PTO/SB/08), | Paper No | Summary (PTO-413), ./Mail Date s Amendment/Comment | | | | | |
| Paper No./Mail Date | _ | | | | | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | | 8. Examiner's Statement of Reasons for Allowance | | | | | |
| | 9. Other | | | | | | |
| | /Yonel Beaulie | | | | | | |
| | | | | | | | |

Allowable Subject Matter

Claims 1 - 15 are allowed.

The prior art of record fail to teach characterizing piezoelectric sensor signal responses for automotive vehicle crash analysis comprising, among other limitations, sampling a response from the piezoelectric sensor for a predetermined period of time; subjecting the response from the piezoelectric sensor to a wavelet analysis and obtaining signal amplitudes; plotting the signal amplitudes in three-dimensional space and forming a cluster of signal amplitudes; comparing a most recent cluster to reference clusters that are indicative of both crash and non-crash events; and providing instructions to an occupant restraint control system in the automotive vehicle.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Yonel Beaulieu/ whose telephone number is (571) 272-6955. The examiner can normally be reached on Mon., Wed. & Thur. between 0900 and 1600.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas BLACK can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/562,442 Page 3

Art Unit: 3661

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yonel Beaulieu/ Yonel Beaulieu Primary Examiner Art Unit 3661